

**The University of Shangla**  
**Khyber Pakhtunkhwa**  
**Invitation to Bid**

**UoShangla/2026/PROC/SOL-03**

TENDER DOCUMENT FOR PROCUREMENT AND TURNKEY INSTALLATION OF 50 kW SMART HYBRID SOLAR SYSTEM (30 kW + 20 kW), UNIVERSITY OF SHANGLA

The University of Shangla invites sealed bids from registered, reputable, and technically and financially sound firms specializing in renewable energy solutions, for the procurement, supply, and turnkey installation of a 50 kW (30 kW + 20 kW) Smart Hybrid Solar System, strictly in accordance with the minimum specifications given in the table below.

| S. No. | Items / Specifications                                                                                                                                                                                                                                                                                                                                                  | Qty / Units |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1.     | <b>Inverex 30 kW</b> , Three-Phase, Smart Hybrid Solar Inverter: must support smart/dynamic load management, 100% unbalanced load output across all three phases, peak-shaving, battery integration (LiFePO4-compatible), and remote/app-based monitoring.                                                                                                              | 01          |
| 2.     | <b>Inverex 20 kW</b> , Three-Phase, Smart Hybrid Solar Inverter: must support smart/dynamic load management, 100% unbalanced load output across all three phases, peak-shaving, battery integration (LiFePO4-compatible), and remote/app-based monitoring.                                                                                                              | 01          |
| 3.     | Solar PV Modules: N-type Bifacial, Tier-1 manufacturer, minimum 620Wp–630Wp per module; 120 modules total, providing an installed array capacity of approximately 74.4–75.6 kWp; minimum 25-year performance warranty.                                                                                                                                                  | 120         |
| 4.     | Lithium-Iron-Phosphate (LiFePO4) Battery Bank: 04 batteries, 16 kWh usable capacity each (total 64 kWh), modular design, integrated Battery Management System (BMS), minimum 6,000 cycle life. Battery allocation: 02 batteries for the 30 kW Inverex inverter, 01 battery for the 20 kW Inverex inverter, and 01 battery for the University's existing 10 kW inverter. | 04          |
| 5.     | <b>Mounting Structure &amp; Balance of System (BOS):</b> 14-gauge Galvanized Iron (GI) structure; fire/heat-resistant copper wiring throughout; DC & AC Distribution Boxes fitted with Surge Protection Devices (SPDs) and heavy-duty MCCB breakers.                                                                                                                    | -           |
| 6.     | <b>Civil Works, Earthing &amp; Turnkey Installation:</b> dedicated AC/DC heavy-duty earthing (boring), lightning arrestor system, and complete AEDB-certified turnkey installation with net-metering readiness.                                                                                                                                                         | -           |

**Battery/System Clarification:** The tender includes two new Inverex hybrid systems (30 kW and 20 kW). The University already has an existing 10 kW inverter, for which one of the four new 16 kWh batteries shall be provided.

- The bidding documents, including detailed contract terms & conditions and specifications, can be obtained from the Office of the Treasurer, University of Shangla, during office hours (8:30 AM to 4:30 PM) on any working day (Monday–Thursday), against a non-refundable fee of **Rs. 5,000/-** per set. This Tender Notice is being advertised in the print media and simultaneously uploaded on the KPPRA website ([www.kppra.gov.pk](http://www.kppra.gov.pk)) and the University's website, in accordance with Rules 11 and 25 of the KPPRA Rules, 2014.
- Selection shall be made under the **"Single Stage – Two Envelope Procedure"**, as laid down under the KPPRA Rules, 2014.
- The Financial Proposal shall invariably be accompanied by a Bid Security @ 2% of the bid cost (Refundable), in the form of a bank draft/CDR drawn in favour of the University of Shangla fee collection account, Account No.: **PK04KHYB0160003005714353**.

5. The bidders shall clearly and boldly mark the Tender description and the date/time of opening on the face of the sealed bid/envelope.
6. Bids submitted without the prescribed Bid Security shall be liable for rejection at the time of bid opening.
7. Upon successful award of the bid, the firm shall be required to conduct an energy audit of the University of Shangla.
8. Firms with prior experience of similar solarization projects at the university/public sector level will be preferred
9. The Technical Proposal opening will be held in the Committee Room of the University of Shangla, in the presence of the bidders and the University Purchase Committee (UPC), as per the schedule given below.
10. The University of Shangla reserves the right to reject any or all bids, at any time before the acceptance of a bid, without assigning any reason.
11. The firm must possess a valid National Tax Number (NTN); Sales Tax registration with the Federal Board of Revenue (FBR) for the supply of goods/equipment; and registration with the Khyber Pakhtunkhwa Revenue Authority (KPRA) for taxable installation/works services under the Khyber Pakhtunkhwa Sales Tax on Services Act, 2022. The firm must further appear on the Active Taxpayer List (ATL) of both FBR and KPRA at the time of bidding.
12. The firm must have prior experience, supported by completion certificates, of similar solar/electrical installation projects executed in public sector institutions.
13. The firm shall submit (i) a non-blacklisting certificate on judicial stamp paper, affirming that it is not blacklisted or declared ineligible by any government department.
14. Bid Validity: This Tender shall remain open, and complete bidding documents may be purchased and bids submitted, for a period of **twenty (20) days** from the date of issue, as per the schedule given below.

| Activity                                                                                                      | Date and Time                  |
|---------------------------------------------------------------------------------------------------------------|--------------------------------|
| Issue / Publication Date                                                                                      | September 30, 2026             |
| Last date for Purchase & Submission of Bid Documents<br>(Separately Sealed Technical and Financial Proposals) | October 20, 2026 up to 1:00 PM |
| Opening of Technical Proposals                                                                                | October 20, 2026 at 1:30 PM    |

**TREASURER  
UNIVERSITY OF SHANGLA**

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